

PLC-OPT- 24DC/TTL - Solid-state relay module

2900363

<https://www.phoenixcontact.com/us/products/2900363>



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PLC-INTERFACE for TTL signal, consisting of PLC-O.../TTL basic terminal block with push-in connection and integrated solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: TTL (5 V DC)

Your advantages

- 6.2 mm narrow design width
- Resistant to vibrations and shocks
- Screw and spring-cage connection
- Switching power TTL (5 V), fan out = 1
- Status indicator
- Integrated protection circuit
- Bridging options

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2900363 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C461 |
| Product key | DK62A3 |
| GTIN | 4046356508995 |
| Weight per piece (including packing) | 28.96 g |
| Weight per piece (excluding packing) | 30.15 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|----------------|--------------------------|
| Product type | Solid-state relay module |
| Product family | PLC-INTERFACE |
| Application | TTL signal at output |
| Operating mode | 100% operating factor |

Insulation characteristics: Air clearances and creepage distances between the power circuits

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 20.09.2025 |
|------------------------------|------------|

Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.08 W |
| Test voltage (Input/output) | 2.5 kV _{rms} (50 Hz, 1 min., input/output) |

Air clearances and creepage distances between the power circuits

| | |
|--------------------------|----------|
| Rated insulation voltage | 250 V DC |
| Rated surge voltage | 4 kV |

Input data

| | |
|--|---|
| Rated actuating voltage U_C | 24 V DC |
| Voltage range with reference to U_C | 0.8 ... 1.2 |
| Rated actuating current I_C | 3.4 mA |
| Switching threshold "0" signal in reference to U_N | < 0.4 |
| Switching threshold "1" signal in reference to U_N | > 0.8 |
| Typical input current at U_N | 3.4 mA |
| Typical response time | 35 μ s |
| Typical turn-off time | 35 μ s |
| Operating voltage display | Yellow LED |
| Protective circuit | Reverse polarity protection; Parallel polarity protection diode |
| | Surge protection |
| Surge voltage protection | > 33 V |
| Transmission frequency | 1 kHz |

Output data

| | |
|--|----------------|
| Designation | Output data |
| Contact switching type | 1 N/O contact |
| Design of digital output | electronic |
| Contact connection type | Signal contact |
| Rated control circuit supply voltage U_S | 5 V DC |

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| | |
|--|---|
| Voltage range with reference to U_S | 0.9 ... 1.2 |
| Output voltage range | 4.5 V DC ... 6 V DC |
| Limiting continuous current | 50 mA (a TTL load (Fan out = 1)) |
| Fan out | 1 |
| Surge voltage protection | > 8 V |
| Voltage drop at max. limiting continuous current | < 80 mV |
| Output circuit | 3-conductor, ground-referenced |
| Protective circuit | Reverse polarity protection; Parallel polarity protection diode |
| | Surge protection |

Connection data

| | |
|----------------------------------|--|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| | 0.2 mm ² ... 2.5 mm ² (Single ferrule) |
| | 2x 0.5 mm ² ... 1 mm ² (TWIN ferrule) |
| Conductor cross-section AWG | 26 ... 14 |

Dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 94 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 (Housing) | V0 (Housing) |

Environmental and real-life conditions

| | |
|---|------------------|
| Ambient conditions | |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Approvals

| | |
|--------------------|----------------------------|
| Corrosive gas test | |
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

Standards and regulations

| | |
|--|---------------|
| Air clearances and creepage distances between the power circuits | |
| Standards/regulations | IEC 60947-5-1 |

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Mounting

| | |
|-------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

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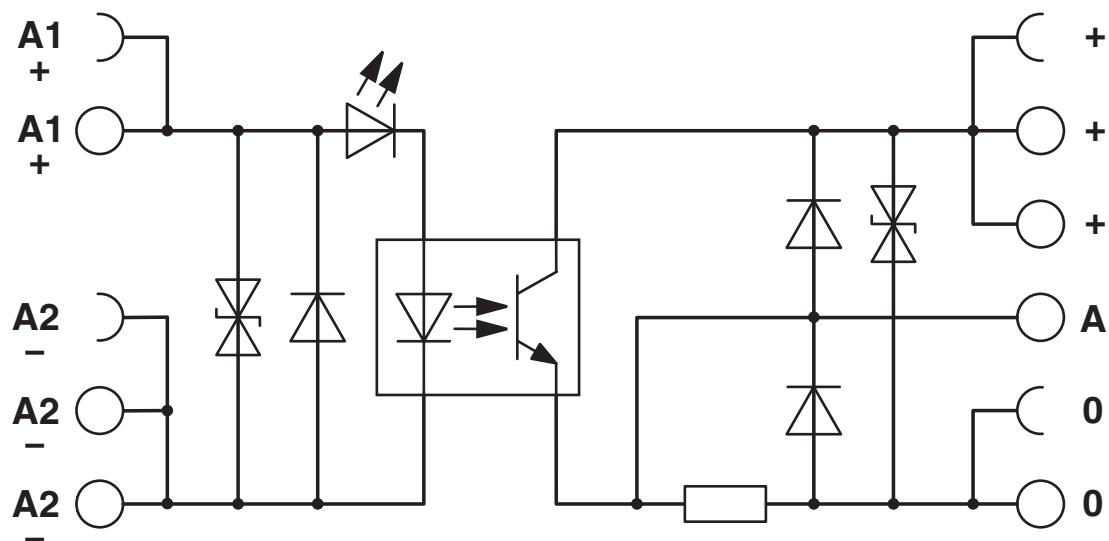
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Drawings

Circuit diagram



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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2900363>



cULus Listed

Approval ID: E140324

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27371604 |
| ECLASS-15.0 | 27371604 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001504 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|---|---------|
| Environment friendly use period (EFUP) | EFUP-50 |
| An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. | |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 52675edb-44e4-4d8f-a53b-c86465c0b2ad |

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